Yucel Birol

List of Publications by Year in descending order

173 papers	3,989 citations	126708 33 h-index	182168 51 g-index
173 all docs	173 docs citations	173 times ranked	2013 citing authors

#	Article	IF	Citations
1	Pre-aging to improve bake hardening in a twin-roll cast Alâ€“Mgâ€“Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 391, 175-180.	2.6	139
2	A357 thixoforming feedstock produced by cooling slope casting. Journal of Materials Processing Technology, 2007, 186, 94-101.	3.1	118
3	Pre-straining to improve the bake hardening response of a twin-roll cast Alâ€“Mgâ€“Si alloy. Scripta Materialia, 2005, 52, 169-173.	2.6	105
4	High temperature sliding wear behaviour of Inconel 617 and Stellite 6 alloys. Wear, 2010, 269, 664-671.	1.5	95
5	Grain refining efficiency of Alâ€“Tiâ€“C alloys. Journal of Alloys and Compounds, 2006, 422, 128-131.	2.8	93
6	Cooling slope casting and thixoforming of hypereutectic A390 alloy. Journal of Materials Processing Technology, 2008, 207, 200-203.	3.1	92
7	The effect of homogenization practice on the microstructure of AA6063 billets. Journal of Materials Processing Technology, 2004, 148, 250-258.	3.1	91
8	A novel Alâ€“Tiâ€“B alloy for grain refining Alâ€“Si foundry alloys. Journal of Alloys and Compounds, 2009, 486, 219-222.	2.8	78
9	Impact of grain size on mechanical properties of AlSi7Mg0.3 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 394-400.	2.6	78
10	AlB3 master alloy to grain refine AlSi10Mg and AlSi12Cu aluminium foundry alloys. Journal of Alloys and Compounds, 2012, 513, 150-153.	2.8	77
11	Sliding wear of CrN, AlCrN and AlTiN coated AISI H13 hot work tool steels in aluminium extrusion. Tribology International, 2013, 57, 101-106.	3.0	77
12	An improved practice to manufacture Alâ€“Tiâ€“B master alloys by reacting halide salts with molten aluminium. Journal of Alloys and Compounds, 2006, 420, 71-76.	2.8	67
13	Semi-solid processing of the primary aluminium die casting alloy A365. Journal of Alloys and Compounds, 2009, 473, 133-138.	2.8	67
14	Performance of AlTi5B1, AlTi3B3 and AlB3 master alloys in refining grain structure of aluminium foundry alloys. Materials Science and Technology, 2012, 28, 481-486.	0.8	64
15	Effect of silicon content in grain refining hypoeutectic Alâ€“Si foundry alloys with boron and titanium additions. Materials Science and Technology, 2012, 28, 385-389.	0.8	62
16	Thermal fatigue testing of Inconel 617 and Stellite 6 alloys as potential tooling materials for thixoforming of steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1938-1945.	2.6	61
17	Microstructural evolution during annealing of a rapidly solidified Alâ€“12Si alloy. Journal of Alloys and Compounds, 2007, 439, 81-86.	2.8	60
18	The effect of processing and Mn content on the T5 and T6 properties of AA6082 profiles. Journal of Materials Processing Technology, 2006, 173, 84-91.	3.1	59

#	Article	IF	Citations
19	In situ synthesis of Alâ€“TiCp composites by reacting K2TiF6 and particulate graphite in molten aluminium. Journal of Alloys and Compounds, 2008, 454, 110-117.	2.8	58
20	Production of Alâ€“Tiâ€“B master alloys from Ti sponge and KBF4. Journal of Alloys and Compounds, 2007, 440, 108-112.	2.8	53
21	Analysis of macro segregation in twin-roll cast aluminium strips via solidification curves. Journal of Alloys and Compounds, 2009, 486, 168-172.	2.8	52
22	Production of Alâ€“Tiâ€“B grain refining master alloys from B2O3 and K2TiF6. Journal of Alloys and Compounds, 2007, 443, 94-98.	2.8	49
23	Homogenization of a twin-roll cast thin Alâ€“Mn strip. Journal of Alloys and Compounds, 2009, 471, 122-127.	2.8	47
24	Effect of the salt addition practice on the grain refining efficiency of Alâ€“Tiâ€“B master alloys. Journal of Alloys and Compounds, 2006, 420, 207-212.	2.8	46
25	Grain refinement of pure aluminium and Alâ€“7Si with Alâ€“3B master alloy. Materials Science and Technology, 2012, 28, 363-367.	0.8	44
26	Production of Alâ€“Tiâ€“B grain refining master alloys from Na2B4O7 and K2TiF6. Journal of Alloys and Compounds, 2008, 458, 271-276.	2.8	41
27	Thermal fatigue testing of Stellite 6-coated hot work tool steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6091-6097.	2.6	40
28	Response to artificial ageing of dendritic and globular Alâ€“7Siâ€“Mg alloys. Journal of Alloys and Compounds, 2009, 484, 164-167.	2.8	39
29	The interaction of natural ageing with straining in a twin-roll cast AlMgSi automotive sheet. Scripta Materialia, 2006, 55, 625-628.	2.6	38
30	The effect of holding conditions in the conventional halide salt process on the performance of Alâ€“Tiâ€“B grain refiner alloys. Journal of Alloys and Compounds, 2007, 427, 142-147.	2.8	37
31	Recrystallization of a supersaturated Alâ€“Mn alloy. Scripta Materialia, 2008, 59, 611-614.	2.6	36
32	Thermomechanical processing of a twin-roll cast Alâ€“1Feâ€“0.2Si alloy. Journal of Materials Processing Technology, 2008, 202, 564-568.	3.1	35
33	Solid fraction analysis with DSC in semi-solid metal processing. Journal of Alloys and Compounds, 2009, 486, 173-177.	2.8	34
34	Restoration of the bake hardening response in a naturally aged twin-roll cast AlMgSi automotive sheet. Scripta Materialia, 2006, 54, 2003-2008.	2.6	33
35	Processing of high strength EN AW 6082 forgings without a solution heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 25-32.	2.6	33
36	Microstructural characterization of a rapidly-solidified Al-12 wt% Si alloy. Journal of Materials Science, 1996, 31, 2139-2143.	1.7	32

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37	Response to thermal cycling of CAPVD (Al,Cr)N-coated hot work tool steel. Surface and Coatings Technology, 2010, 205, 275-280.	2.2	32
38	Analysis of wear of a gas nitrided H13 tool steel die in aluminium extrusion. Engineering Failure Analysis, 2012, 26, 203-210.	1.8	32
39	The performance of Alâ€“Tiâ€“C grain refiners in twin-roll casting of aluminium foilstock. Journal of Alloys and Compounds, 2007, 430, 179-187.	2.8	31
40	Impact of homogenization on recrystallization of a supersaturated Alâ€“Mn alloy. Scripta Materialia, 2009, 60, 5-8.	2.6	31
41	Forming of AlSi8Cu3Fe alloy in the semi-solid state. Journal of Alloys and Compounds, 2009, 470, 183-187.	2.8	31
42	Effect of cooling rate on precipitation during homogenization cooling in an excess silicon AlMgSi alloy. Materials Characterization, 2012, 73, 37-42.	1.9	31
43	Optimization of homogenization for a low alloyed AlMgSi alloy. Materials Characterization, 2013, 80, 69-75.	1.9	31
44	DSC analysis of the precipitation reaction in AA6005 alloy. Journal of Thermal Analysis and Calorimetry, 2008, 93, 977-981.	2.0	30
45	Precipitation during homogenization cooling in AlMgSi alloys. Transactions of Nonferrous Metals Society of China, 2013, 23, 1875-1881.	1.7	30
46	Thixoforming of EN AW-2014 alloy at high solid fraction. Journal of Materials Processing Technology, 2011, 211, 1749-1756.	3.1	29
47	Aluminothermic reduction of boron oxide for the manufacture of Alâ€“B alloys. Materials Chemistry and Physics, 2012, 136, 963-966.	2.0	29
48	Semisolid processing of near-eutectic and hypereutectic Alâ€“Siâ€“Cu alloys. Journal of Materials Science, 2008, 43, 3577-3581.	1.7	28
49	Comparison of thixoformability of AA6082 reheated from the as-cast and extruded states. Journal of Alloys and Compounds, 2008, 461, 132-138.	2.8	28
50	Bake hardening of twin roll cast Alâ€“Mgâ€“Si sheet. Materials Science and Technology, 2005, 21, 153-158.	0.8	27
51	Production of Alâ€“B alloy by heating Al/KBF4 powder blends. Journal of Alloys and Compounds, 2009, 481, 195-198.	2.8	27
52	Effect of welding parameters on microstructure and mechanical properties of friction stir welded EN AW 5083 H111 plates. Materials Science and Technology, 2013, 29, 1354-1362.	0.8	27
53	A novel C-free Co-based alloy for high temperature tooling applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1117-1124.	2.6	26
54	Sliding wear behaviour of thixoformed AlSiCuFe alloys. Wear, 2008, 265, 1902-1908.	1.5	25

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55	DSC Analysis of the precipitation reactions in the alloy AA6082. Journal of Thermal Analysis and Calorimetry, 2006, 83, 219-222.	2.0	24
56	Thixoforging experiments with 6082 extrusion feedstock. Journal of Alloys and Compounds, 2008, 455, 178-185.	2.8	24
57	Response to annealing treatments of twin-roll cast thin Alâ€“Feâ€“Si strips. Journal of Alloys and Compounds, 2008, 458, 265-270.	2.8	24
58	Performance of gas nitrided and AlTiN coated AISI H13 hot work tool steel in aluminium extrusion. Surface and Coatings Technology, 2012, 207, 461-466.	2.2	24
59	In situ processing of TiCp-Al composites by reacting graphite with Al-Ti melts. Journal of Materials Science, 1999, 34, 1653-1657.	1.7	23
60	Ni-based superalloy as a potential tool material for thixoforming of steels. Ironmaking and Steelmaking, 2009, 36, 555-560.	1.1	23
61	Alâ€“Tiâ€“B grain refiners via powder metallurgy processing of Al/K2TiF6/KBF4 powder blends. Journal of Alloys and Compounds, 2009, 480, 311-314.	2.8	23
62	Improved halide salt process to produce Alâ€“B master alloys. Materials Science and Technology, 2011, 27, 1846-1850.	0.8	23
63	Thermal cycling of AlTiN- and AlTiON-coated hot work tool steels at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4703-4709.	2.6	23
64	Interaction of grain refinement with B and modification with Sr in aluminium foundry alloys. Materials Science and Technology, 2012, 28, 70-76.	0.8	23
65	Effect of chemical etching on the morphology of anodic aluminum oxides in the two-step anodization process. Applied Surface Science, 2012, 258, 4544-4550.	3.1	23
66	Wear properties of high-pressure die cast and thixoformed aluminium alloys for connecting rod applications in compressors. Wear, 2008, 265, 590-597.	1.5	22
67	Cooling slope casting to produce EN AW 6082 forging stock for manufacture of suspension components. Transactions of Nonferrous Metals Society of China, 2014, 24, 1674-1682.	1.7	21
68	Effect of Cr and Zr on the grain structure of extruded EN AW 6082 alloy. Metals and Materials International, 2014, 20, 727-732.	1.8	21
69	Testing of a novel CrNiCo alloy for tooling applications in semi-solid processing of steels. International Journal of Material Forming, 2010, 3, 65-70.	0.9	20
70	Response to thermal cycling of tool materials under steel thixoforming conditions. Ironmaking and Steelmaking, 2010, 37, 41-46.	1.1	20
71	What happens to the energy input during fatigue crack propagation?. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1988, 104, 117-124.	2.6	19
72	Response to thermal exposure of Al/K2TiF6/C powder blends. Journal of Alloys and Compounds, 2008, 455, 164-167.	2.8	19

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73	Response to annealing treatment of a twin-roll cast thin AlFeMnSi strip. Journal of Materials Processing Technology, 2009, 209, 506-510.	3.1	19
74	Grain refinement and modification of Alâ€“Si foundry alloys with B and Sr additions. Materials Science and Technology, 2014, 30, 1154-1161.	0.8	19
75	Melt treatment of Alâ€“Si foundry alloys with B and Sr additions. Journal of Materials Science, 2017, 52, 6856-6865.	1.7	19
76	The Use of CrNiCo-Based Superalloy as Die Material in Semi-Solid Processing of Steels. Solid State Phenomena, 0, 141-143, 289-294.	0.3	18
77	Effect of cast and extruded stock on grain structure of EN AW 6082 alloy forgings. Materials Science and Technology, 2014, 30, 860-866.	0.8	18
78	Effect of bulk die temperature on die cavity surface strains in thixoforming of steels. Ironmaking and Steelmaking, 2009, 36, 397-400.	1.1	17
79	Abrasive wear performance of AlCrN-coated hot work tool steel at elevated temperatures under three-body regime. Wear, 2011, 270, 281-286.	1.5	17
80	Homogenization of EN AW 6005A Alloy for Improved Extrudability. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 504-511.	1.1	17
81	Effect of solute Si and Cu on grain size of aluminium alloys. International Journal of Cast Metals Research, 2013, 26, 22-27.	0.5	17
82	Effect of post-oxidation treatment on thermal fatigue behaviour of plasma nitrided hot work tool steel at elevated temperatures. Surface and Coatings Technology, 2011, 205, 2763-2769.	2.2	16
83	The effect of sample preparation on the DSC analysis of 6061 alloy. Journal of Materials Science, 2005, 40, 6357-6361.	1.7	15
84	Thixoforming of non-dendritic AA6061 feedstock produced by low superheat casting with and without a cooling slope. International Journal of Materials Research, 2007, 98, 1019-1024.	0.1	15
85	Effect of solution heat treatment on the age hardening capacity of dendritic and globular AlSi7Mg0.6 alloys. International Journal of Materials Research, 2010, 101, 439-444.	0.1	15
86	Impact of partial recrystallization on the performance of 6005A tube extrusions. Engineering Failure Analysis, 2010, 17, 1110-1116.	1.8	15
87	Inconel 617 and Stellite 6 alloys for tooling in thixoforming of steels. Transactions of Nonferrous Metals Society of China, 2010, 20, 1656-1662.	1.7	15
88	Response to thermal cycling of duplex-coated hot work tool steels at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8402-8409.	2.6	15
89	Effect of solute Mg on grain size of aluminium alloys. Materials Science and Technology, 2012, 28, 924-927.	0.8	15
90	Response to thermal exposure of the mechanically alloyed Alâ€“Ti/C powders. Journal of Materials Science, 2007, 42, 5123-5128.	1.7	14

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91	Thermal fatigue testing of CuCrZr alloy for high temperature tooling applications. Journal of Materials Science, 2010, 45, 4501-4506.	1.7	14
92	Response to thermal cycling of plasma nitrided hot work tool steel at elevated temperatures. Surface and Coatings Technology, 2010, 205, 597-602.	2.2	14
93	Evolution of globular microstructures during processing of aluminium slurries. Transactions of Nonferrous Metals Society of China, 2013, 23, 1-6.	1.7	14
94	Grain refining aluminium foundry alloys with commercial Alâ€“B master alloys. Materials Science and Technology, 2014, 30, 277-282.	0.8	14
95	Production of AA6082 Feedstock for Forming in the Semi-Solid State. Materials Science Forum, 2006, 519-521, 1919-1924.	0.3	13
96	Comparison of Cast and Extruded Stock for the Forging of AA6082 Alloy Suspension Parts. Advanced Materials Research, 0, 939, 299-304.	0.3	13
97	Thermomechanical processing of AA6061 billets for semi-solid forming. International Journal of Materials Research, 2007, 98, 53-59.	0.1	12
98	Effect of Welding Parameters on the Microstructure and Strength of Friction Stir Weld Joints in Twin Roll Cast EN AW Al-Mn1Cu Plates. Journal of Materials Engineering and Performance, 2013, 22, 3024-3033.	1.2	12
99	Plastic deformation around fatigue cracks. Metallography, 1988, 21, 77-90.	0.4	11
100	Response to thermal exposure of the mechanically alloyed Al/C powder blends. Journal of Alloys and Compounds, 2008, 460, L1-L5.	2.8	11
101	Fatigue failures in low pressure die cast AlSi10Mg cylinder heads. International Journal of Cast Metals Research, 2008, 21, 408-415.	0.5	11
102	Internal cooling to produce aluminium alloy slurries for rheocasting. Journal of Alloys and Compounds, 2009, 480, 365-368.	2.8	11
103	Efficiency of binary and ternary alloys from Alâ€“Tiâ€“B system in grain refining aluminium foundry alloys. International Journal of Cast Metals Research, 2013, 26, 283-288.	0.5	11
104	Effect of extrusion press exit temperature and chromium on grain structure of EN AW 6082 alloy forgings. Materials Science and Technology, 2015, 31, 207-211.	0.8	11
105	Effect of iron on microstructure and mechanical properties of primary AlSi7Mg0.3 alloy. International Journal of Cast Metals Research, 2017, 30, 96-102.	0.5	11
106	Microstructure of a Thin Cast Al-Fe-Mn-Si Strip. Praktische Metallographie/Practical Metallography, 2005, 42, 325-338.	0.1	11
107	Interannealing twin-roll cast Alâ€“Feâ€“Si strips without homogenization. Scripta Materialia, 2009, 61, 185-188.	2.6	10
108	Analysis of the response to thermal exposure of Al/K2TiF6 powder blends. Journal of Alloys and Compounds, 2009, 478, 265-268.	2.8	10

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109	Extrusion of EN AW-2014 alloy in semisolid state. Materials Science and Technology, 2011, 27, 1851-1857.	0.8	10
110	Response to T6 heat treatment of extruded and thixoformed EN AW 2014 alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5636-5641.	2.6	10
111	Grain refinement of Alâ€“Cu foundry alloys with B additions. International Journal of Cast Metals Research, 2012, 25, 117-120.	0.5	10
112	Heat treatment of twin-belt cast EN AW 7075 alloy. Materials Characterization, 2012, 63, 1-8.	1.9	10
113	Effect of Strontium Addition on Microstructure and Mechanical Properties of AlSi7Mg0.3 Alloy. International Journal of Metalcasting, 2017, 11, 688-695.	1.5	10
114	AlSi5Mg0.3 Alloy for the Manufacture of Automotive Wheels. International Journal of Metalcasting, 2018, 12, 614-624.	1.5	10
115	Effect of natural ageing on the performance of pre-ageing to improve bake-hardening response of a twin-roll cast Alâ€“Mgâ€“Si alloy. International Journal of Materials Research, 2005, 96, 380-384.	0.8	9
116	Effect of processing on microstructure, texture and mechanical properties of twin roll cast 5754 sheet. Materials Science and Technology, 2006, 22, 987-994.	0.8	9
117	Survey of inclusions in twin roll casting of wrought aluminium alloys. International Journal of Cast Metals Research, 2010, 23, 250-255.	0.5	9
118	AlTiN and AlTiON-coated hot work tool steels for tooling in steel thixoforming. Transactions of Nonferrous Metals Society of China, 2010, 20, s1022-s1028.	1.7	9
119	Performance of Alâ€“5Tiâ€“1B and Alâ€“3B grain refiners in investment casting of AlSi7Mg0Â·Â·3 alloy with preheated ceramic moulds. International Journal of Cast Metals Research, 2012, 25, 296-300.	0.5	9
120	Friction stir welding of twin-roll cast EN AW 3003 plates. Metals and Materials International, 2013, 19, 1259-1266.	1.8	9
121	Effect of homogenization on recrystallization in a twin-roll cast Alâ€“Feâ€“Si alloy. Journal of Materials Science, 2008, 43, 4652-4657.	1.7	8
122	PVD coated hot work tool steels for tooling applications in semi-solid processing of steels. International Journal of Material Forming, 2010, 3, 747-750.	0.9	8
123	Evolution of grain structure across joints in friction stir welded EN AW 5083 H111 plates during thermal exposure. Materials Science and Technology, 2013, 29, 1283-1289.	0.8	8
124	Microstructure Evolution of Twin-Roll Cast AA5xxx Alloys during Homogenisation-Like Annealing. Materials Science Forum, 2002, 396-402, 711-716.	0.3	7
125	Recrystallization of twin-roll cast Alâ€“Feâ€“Si foil stock processed without homogenization. Journal of Alloys and Compounds, 2009, 488, 112-116.	2.8	7
126	Impact of pre-ageing on age hardening response of twin-belt cast AlMg1SiCu sheet. Journal of Materials Science, 2010, 45, 6727-6731.	1.7	7

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127	High-temperature abrasive wear testing of potential tool materials for thixoforming of steels. Tribology International, 2010, 43, 2222-2230.	3.0	7
128	Internal cooling process to prepare aluminium rheocasting feedstock. International Journal of Cast Metals Research, 2010, 23, 55-59.	0.5	7
129	Homogenization of direct chill cast AlSi1MgMn billets. International Journal of Materials Research, 2014, 105, 75-82.	0.1	7
130	A calorimetric analysis of the precipitation reactions in AlSi1MgMn alloy with Cu additions. Thermochimica Acta, 2017, 650, 39-43.	1.2	7
131	Effect of Vanadium and Zirconium Additions on Mechanical Properties and Microstructure of Gravity Die-Cast AlSi9Cu2 Alloy Cylinder Heads. International Journal of Metalcasting, 2019, 13, 137-145.	1.5	7
132	Thermomechanical processing of an aluminium casting alloy for thixoforming. Journal of Alloys and Compounds, 2009, 479, 113-120.	2.8	6
133	Thermal Cycling of Yttria-Stabilized Zirconia-Coated Hot Work Tool Steel. Journal of Thermal Spray Technology, 2011, 20, 1110-1117.	1.6	6
134	Age hardening of EN AW 2014 alloy extruded in the semi-solid state. Materials Chemistry and Physics, 2012, 131, 694-697.	2.0	6
135	Grain refining AlSi7Mg0Â·3 foundry alloy with commercial Alâ€“4B master alloy. Materials Science and Technology, 2014, 30, 465-470.	0.8	6
136	Twin-roll cast Alâ€“Mgâ€“Si sheet for automotive applications. International Journal of Materials Research, 2004, 95, 381-386.	0.8	6
137	Analysis of fatigue crack tip plasticity in Fe-2.6Si. Journal of Materials Science, 1988, 23, 2079-2086.	1.7	5
138	Crystallization of A Fe36Ni36B28 metallic glass during ball-milling. Scripta Materialia, 1996, 34, 1081-1085.	2.6	5
139	Wear properties of thixoformed AlSiCuFe alloys. International Journal of Material Forming, 2008, 1, 981-984.	0.9	5
140	Ni- and Co-based superalloys as potential tool materials for thixoforming of steels. International Journal of Material Forming, 2010, 3, 739-742.	0.9	5
141	High-Temperature Sliding Wear Testing of Cathodic Arc Physical Vapor Deposition AlTiN- and AlTiON-Coated Hot Work Tool Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3316-3322.	1.1	5
142	Effect of homogenisation cooling rate and press exit temperature on extrudability and T5 hardness of EN AW 6082 alloy. Materials Science and Technology, 2013, 29, 1518-1521.	0.8	5
143	A novel processing route for the manufacture of EN AW 6082 forged components. Materials Research Innovations, 2015, 19, S10-311-S10-314.	1.0	5
144	Synthesis of Alâ€“SrB6 composite via powder metallurgy processing. Transactions of Nonferrous Metals Society of China, 2015, 25, 677-682.	1.7	5

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145	Potential of twin-belt-cast EN AW 6082 blanks for the manufacture of wishbone suspension forgings. International Journal of Advanced Manufacturing Technology, 2017, 92, 3693-3701.	1.5	5
146	Optimization of the Strontium Modification Process in Gravity Permanent Mould Tilt Cast AlSi6Cu4 Cylinder Heads. International Journal of Metalcasting, 2018, 12, 266-274.	1.5	5
147	Plastic zone characterization by recrystallization. Journal of Materials Science Letters, 1987, 6, 1161-1163.	0.5	4
148	Reversion Treatment to Improve Bake Hardening Response of a Twin-Roll Cast 6016 Automotive Sheet. Materials Science Forum, 2007, 539-543, 345-350.	0.3	4
149	Thermal Fatigue Testing of Plasma Transfer Arc Stellite Coatings on Hot Work Tool Steels under Steel Thixoforming Conditions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3277-3283.	1.1	4
150	Potential of cast EN AW7075 billet as thixoforging feedstock. Materials Science and Technology, 2012, 28, 553-559.	0.8	4
151	Formation of pinch marks on pack rolled aluminium foil. Engineering Failure Analysis, 2013, 28, 82-89.	1.8	4
152	Optimising the T6 heat treatment for gravity cast AlSi7MgCu0.5 alloy V8 cylinder heads. International Journal of Cast Metals Research, 2017, 30, 244-250.	0.5	4
153	Metallographic investigation of hot tear in direct chill cast Alâ€“Znâ€“Mg billet. International Journal of Cast Metals Research, 2011, 24, 1-5.	0.5	3
154	Corrosion of twin belt and twin roll cast AlMg3Mn alloys. Corrosion Engineering Science and Technology, 2014, 49, 228-235.	0.7	3
155	Low-temperature synthesis of MgB2 via powder metallurgy processing. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	3
156	Dynamic recrystallization during fatigue crack propagation. Scripta Metallurgica, 1988, 22, 405-408.	1.2	2
157	A low-cycle fatigue approach to fatigue crack propagation. Journal of Materials Science, 1989, 24, 2093-2098.	1.7	2
158	Investigation of Isothermal and Cyclic Oxidation of Plasma-Nitrided Hot-Work Tool Steel at Elevated Temperatures. Oxidation of Metals, 2011, 76, 399-417.	1.0	2
159	Heat treatment of thixoformed EN AW 7075 alloy. Materials Science and Technology, 2012, 28, 651-657.	0.8	2
160	Design of potent grain refiners for wrought aluminium alloys. International Journal of Cast Metals Research, 2013, 26, 273-278.	0.5	2
161	Potential of horizontal direct chill cast EN AW 6082 rods as forging stock in the manufacture of light weight suspension components. Metallurgical Research and Technology, 2017, 114, 209.	0.4	2
162	Effect of processing on structural features of anodic aluminum oxides. Applied Physics A: Materials Science and Processing, 2012, 108, 587-592.	1.1	1

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163	Corrosion behaviour of twin belt cast EN AW 7075 alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2013, 64, 881-889.	0.8	1
164	Response to Thermal Exposure of Ball-Milled Aluminum-Borax Powder Blends. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 359-364.	1.0	1
165	Investigation of wear behaviour of thixoformed and conventional gravity cast AlSi8Cu3Fe alloys. Industrial Lubrication and Tribology, 2014, 66, 46-50.	0.6	1
166	Processing of twin-roll cast thin AlFeSi strips for the manufacture of aluminium finstock. Metallurgical Research and Technology, 2017, 114, 202.	0.4	1
167	Effect of Copper on Corrosion of Forged AlSi1MgMn Automotive Suspension Components. Journal of Materials Engineering and Performance, 2017, 26, 4188-4196.	1.2	1
168	Geometrical characterization of fatigue plastic zones in hot-rolled Fe-2.6%Si. Journal of Materials Science Letters, 1988, 7, 539-541.	0.5	0
169	Thermal Fatigue Testing of Duplex-Coated Hot Work Tool Steels at Elevated Temperatures. , 2011, , .		0
170	Isothermal oxidation of plasma-nitrided hot-work tool steel at 750Â°C. Materials at High Temperatures, 2012, 29, 17-22.	0.5	0
171	Impact of interannealing on recrystallization during final annealing in twin-belt cast Alâ€“Feâ€“Si sheet. International Journal of Materials Research, 2012, 103, 992-997.	0.1	0
172	Response to Thermal Exposure of Ball-Milled Cu-Mg/B2O3 Powder Blends. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 969-973.	1.0	0
173	A calorimetric analysis of the response to heating of EN AW-2014 alloy formed in the liquid, solid and semi-solid states. Thermochimica Acta, 2018, 663, 189-193.	1.2	0